

ABSTRACT OF THE DISCLOSURE

5 SYSTEM AND PROCESS FOR ENHANCING METHOD CALLS OF SPECIAL
 PURPOSE OBJECT-ORIENTED PROGRAMMING LANGUAGES TO HAVE
 SECURITY ATTRIBUTES FOR ACCESS CONTROL

10 A process, a system, an apparatus, and a computer
program product are presented for generating and using an
enforcement construct within a special purpose
object-oriented programming language in order to control
access to a protected method. Within source code
statements, the enforcement construct comprises an
enforcement keyword that indicates an authorization
15 restriction on the invocation of an object-oriented method
in conjunction with an identifier of an authorization
method. In the runtime environment, when a call is
initiated to an object-oriented method, a check is made as
to whether the object-oriented method has been protected
20 by an enforcement construct. If so, then the
authorization method is invoked, which determines whether
an entity that is attempting to call or invoke the
object-oriented method is authorized to execute the
object-oriented method. If so, then the object-oriented
25 method is invoked, and if not, an error response may be
returned to the calling entity.